

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): A force input manipulator that operates an object according to a manipulating force applied to a manipulating unit, comprising:

an applied force detector which detects the manipulating force applied to the manipulating unit;

an operation mode selector which decides a reference manipulating force closest to the detected manipulating force applied out of a plurality of reference manipulating forces stored in advance in correlation with a plurality of operation modes, and selects the operation mode corresponding to the decided reference manipulating force; and

a motion control signal generator which outputs a motion control signal for controlling the motion of the object according to the selected operation mode.

Claim 2 (original): The force input manipulator according to claim 1, further comprising means for developing and storing the reference manipulating force based on the applied manipulating force.

Claim 3 (currently amended): The force input manipulator according to claim 1 or 2, wherein the applied force detector is a biaxial force sensor which detects a force acting in a direction with respect to the object and in another direction intersecting the first mentioned direction.

Claim 4 (currently amended): The force input manipulator according to claim 1-~~or~~2, wherein the applied force detector includes a plurality of force sensors, out of which at least two sensors are employed for one direction.

